Index for Volume 31 (1982)

COMPILED BY TROY L. BEST

Accuracy and precision in anuran morphometrics: Artifacts of preservation, Julian C. Lee, 266–281
A comment upon the uses of Fourier methods in systematics, F. L. Bookstein, R. E. Strauss, J. M. Humphries, B. Chernoff, R. L. Elder, and G. R. Smith, 85–92
Acris crepitans, 280
Adelotus, 319, 322
Allometry, 113–135
Allotype, 334–336
Alternative hypotheses in biogeography (rev.), 341–342
Ambystoma tigrinum, 508
Ametrida centurio, 242
Analysis,
  biorthogonal, 113–135
  call, 57–67
  discriminant, 113–135, 266–281
  factor, 413–444
  multivariate, 113–135
  principal component, 113–135, 266–281
  univariate, 266–281
Anonymous (ed.), Tendances actuelles de la biogéographie: Compte rendu du colloque du 21 Février 1980 (rev.), 217–218
Anoura, 253, 259, 262, 263
  caudifer, 255, 256
  geoffroyi, 242, 255, 256
Anuran morphometrics, 266–281
Archaeopteryx, 45, 48, 53
Ardea cocai, 52
Ariteus flavescens, 242
Artibeus, 252
  jamaicensis, 242
Asplanchna sieboldi, 508
Assa, 319, 326
Atchley, William R., Erik V. Nordheim, Fields C. Gunsett, and Peter L. Crump, Geometric and probabilistic aspects of statistical distance functions, 445–460
Atelopus ignescens, 280
Australocrinia, 324
Australopithecus, 399, 401, 403

Baba, Marietta L., Mark L. Weiss, Morris Goodman, and John Czelusniak, The case of tarsier hemoglobin, 156–165
Baker, Robert J., see Haiduk, Michael W., and –
Ballance, P. F. (ed.), Plate tectonics and biogeography in the southwest Pacific: The last 100 million years (rev.), 106–108
Baptornis, 42–49, 53
Baptornithidae, 35, 37, 49
Beatty, John, Classes and cladists, 25–34
Berberis
  nervosa, 138
  vulgaris, 138
Berlocher, Stewart H., and Guy L. Bush, An electrophoretic analysis of *Rhagoletis* (Diptera: Tephritidae) phylogeny, 136–155
Biogenetic law, 202–205
Biorthogonal analysis, 113–135
Bookstein, F. L., R. E. Strauss, J. M. Humphries, B. Chernoff, R. L. Elder, and G. R. Smith, A comment upon the uses of Fourier methods in systematics, 85–92
Bookstein, Fred L., see Strauss, Richard E., and –
Bos, 160
Bovidae, 397, 399
Brachyphylla, 253, 255, 259, 263
  cavernarum, 242
Brackman, Arnold C., A delicate arrangement: The strange case of Charles Darwin and Alfred Russel Wallace (rev.), 105–106
Bradfield, Gary E., see Maze, Jack, and –
Brady, Ronald H., Theoretical issues and "pattern cladistics," 286–291
Brephidium, 306, 307
Brooks, Daniel R., review by, 206–208
Brooks, Daniel R., see Wiley, E. O., and –
Brooks, D. R., see Funk, V. A., and –
Bufo, 63
  marinus, 266–281
Burns, John M., Biograffiti: A natural selection (rev.), 110
Bush, Guy L., see Berlocher, Stewart H., and –

Call analysis, 57–67
Camelidae, 408
Canidae, 397, 399
Canis, 160
Carcinoscorpius rotundicauda, 510
Caribbean biogeography: Implications of recent plate tectonic studies, S. Blair Hedges, 518–522
Carollia, 252
  castanea, 242
  perspicillata, 242
  subrufa, 242
Case of tarsier hemoglobin, the, Marietta L. Baba, Mark L. Weiss, Morris Goodman, and John Czelusniak, 156–165
Caudiverbera, 167, 173
  caudiverbera, 168
Cebus, 397, 399
Centurio senex, 242
Ceratophrys, 166–179
  aurita, 166, 168–174, 176

Index for Volume 31 (1982)

COMPILED BY TROY L. BEST

Accuracy and precision in anuran morphometrics: Artifacts of preservation, Julian C. Lee, 266–281
A comment upon the uses of Fourier methods in systematics, F. L. Bookstein, R. E. Strauss, J. M. Humphries, B. Chernoff, R. L. Elder, and G. R. Smith, 85–92
Acris crepitans, 280
Adelotus, 319, 322
Allometry, 113–135
Allotype, 334–336
Alternative hypotheses in biogeography (rev.), 341–342
Ambystoma tigrinum, 508
Ametrida centurio, 242
Analysis,
  biorthogonal, 113–135
  call, 57–67
  discriminant, 113–135, 266–281
  factor, 413–444
  multivariate, 113–135
  principal component, 113–135, 266–281
  univariate, 266–281
Anonymous (ed.), Tendances actuelles de la biogéographie: Compte rendu du colloque du 21 Février 1980 (rev.), 217–218
Anoura, 253, 259, 262, 263
  caudifer, 255, 256
  geoffroyi, 242, 255, 256
Anuran morphometrics, 266–281
Archaeopteryx, 45, 48, 53
Ardea cocai, 52
Ariteus flavescens, 242
Artibeus, 252
  jamaicensis, 242
Asplanchna sieboldi, 508
Assa, 319, 326
Atchley, William R., Erik V. Nordheim, Fields C. Gunsett, and Peter L. Crump, Geometric and probabilistic aspects of statistical distance functions, 445–460
Atelopus ignescens, 280
Australocrinia, 324
Australopithecus, 399, 401, 403

Baba, Marietta L., Mark L. Weiss, Morris Goodman, and John Czelusniak, The case of tarsier hemoglobin, 156–165
Baker, Robert J., see Haiduk, Michael W., and –
Ballance, P. F. (ed.), Plate tectonics and biogeography in the southwest Pacific: The last 100 million years (rev.), 106–108
Baptornis, 42–49, 53
Baptornithidae, 35, 37, 49
Beatty, John, Classes and cladists, 25–34
Berberis
  nervosa, 138
  vulgaris, 138
Berlocher, Stewart H., and Guy L. Bush, An electrophoretic analysis of *Rhagoletis* (Diptera: Tephritidae) phylogeny, 136–155
Biogenetic law, 202–205
Biorthogonal analysis, 113–135
Bookstein, F. L., R. E. Strauss, J. M. Humphries, B. Chernoff, R. L. Elder, and G. R. Smith, A comment upon the uses of Fourier methods in systematics, 85–92
Bookstein, Fred L., see Strauss, Richard E., and –
Bos, 160
Bovidae, 397, 399
Brachyphylla, 253, 255, 259, 263
  cavernarum, 242
Brackman, Arnold C., A delicate arrangement: The strange case of Charles Darwin and Alfred Russel Wallace (rev.), 105–106
Bradfield, Gary E., see Maze, Jack, and –
Brady, Ronald H., Theoretical issues and "pattern cladistics," 286–291
Brephidium, 306, 307
Brooks, Daniel R., review by, 206–208
Brooks, Daniel R., see Wiley, E. O., and –
Brooks, D. R., see Funk, V. A., and –
Bufo, 63
  marinus, 266–281
Burns, John M., Biograffiti: A natural selection (rev.), 110
Bush, Guy L., see Berlocher, Stewart H., and –

Call analysis, 57–67
Camelidae, 408
Canidae, 397, 399
Canis, 160
Carcinoscorpius rotundicauda, 510
Caribbean biogeography: Implications of recent plate tectonic studies, S. Blair Hedges, 518–522
Carollia, 252
  castanea, 242
  perspicillata, 242
  subrufa, 242
Case of tarsier hemoglobin, the, Marietta L. Baba, Mark L. Weiss, Morris Goodman, and John Czelusniak, 156–165
Caudiverbera, 167, 173
  caudiverbera, 168
Cebus, 397, 399
Centurio senex, 242
Ceratophrys, 166–179
  aurita, 166, 168–174, 176

calcarata, 166, 168–176, 178
cornuta, 166, 168–178
cranwelli, 166, 168–174
ornata, 166, 168–170, 172–174, 176
pierottii, 166, 168, 170, 172–175
stolzmanni, 166, 168, 169, 171–175, 178
testudo, 166, 174
varia, 168
Chacophrys pierottii, 174
Character evolution, 461–478
Character state trees, 461–478
Chelydra serpentina, 391
Chernoff, B., see Bookstein, F. L., –
Chiarelli, A. Brunetto, see Chiochon, Russell L., and –
Chiochon, Russell L., and A. Brunetto Chiarelli (eds.), Evolutionary biology of the New World monkeys and continental drift (rev.), 225–229
Choeroniscus, 252, 253, 260, 262, 264
minor, 255–257, 259, 261
Choeronycteris, 252, 253, 262, 264
mexicana, 254–257, 259
Chromosomal evolution, 252–265
Chromosome pairing, 57–67
Cladistical analysis of female reproductive histomorphology in phyllostomatoid bats, Craig S. Hood and James Dale Smith, 241–251
Cladistical analysis of G-banded chromosomes of nectar feeding bats (Glossophaginae: Phyllostomidae), Michael W. Haiduk and Robert J. Baker, 252–265
Cladistics, 25–34, 35–56, 166–179, 241–251, 252–265, 284–286, 286–291, 337–341, 389–412, 413–444, 461–478
Clarkia, 494
Classes and cladists, John Beatty, 25–34
Classes and cladists or individuals and evolution, Colin Patterson, 284–286
Classification, 461–478
Climatic change, 338–355
Coevolution, 136–155
Colless, Donald H., review by, 100–104
Congruence, 461–478
Cornus
amomum, 138
stolonifera, 138
Cottus, 118
cognatus, 120, 123, 124
klamathensis, 122, 123, 125–134
pitensis, 125–131
Cracraft, Joel, A nonequilibrium theory for the rate-control of speciation and extinction and the origin of macroevolutionary patterns, 338–355
Cracraft, Joel, Phylogenetic relationships and monophyly of loons, grebes, and hesperornithiform birds, with comments on the early history of birds, 35–56
Crataegus, 137
brachycantha, 138
Craw, Robin C., Phylogenetics, areas, geology and the biogeography of Croizat: A radical view, 304–316
Craw, Robin C., review by, 106–108
Crinia
georgiana, 319
haswelli, 319, 326
Croizat (-Chaley), Leon, Vicariance/vicariism, panbiogeography, "vicariance biogeography," etc.: A clarification, 291–304
Crotalus adamanteus, 391
Crowson, R. A., The biology of the Coleoptera (rev.), 342–345
Crump, Peter L., see Atchley, William R., –
Cyanorhamphus, 306, 307
Cyclorana, 318
Czelusniak, John, see Baba, Marietta L., –
Czelusniak, John, see Goodman, Morris, –

Darlingia, 307
Darwinianh (rev.), 105–106
Defining characters and evolutionary groups, Norman I. Platnick, 282–284
Desmodus rotundus, 242, 246
Dingus, Lowell, and Peter M. Sadler, The effects of stratigraphic completeness on estimates of evolutionary rates, 356–368
Diomedea, 38–41, 43
immutabilis, 52
Diomedeidae, 37
Discriminant analysis, 113–135, 266–281
Distance statistics, 445–460
Diversity, 338–355
Do current theories of evolution satisfy the basic requirements of explanation?, D. E. Rosen, 76–85
Donoghue, Michael J., see Mishler, Brent D., and –
Drosophila, 493, 509

Ectophylla alba, 242
Edwards, A. W. F., review by, 229–230
Efficiency, 413–444
Elder, R. L., see Bookstein, F. L., –
Eldredge, Niles, Phenomenological levels and evolutionary rates, 379–388
Electrophoretic analysis of *Rhagoletis* (Diptera: Tephritidae) phylogeny, an, Stewart H. Berlocher and Guy L. Bush, 136–155
Enaliornis, 48, 49, 53
Enaliornithidae, 35, 37, 48
Enchisthenes hartii, 242
Entropy, 1–24
Epochra, 149
canadensis, 136, 138, 141, 144, 145
Equus, 160
Erinaceus, 160
Erophylla, 253, 255, 259, 263
Eucarpha, 307
Euclidean distance, 445–460
Eunymphicus, 306, 307
Evolution, 25–34, 76–85
birds, 35–56
nonequilibrium, 1–24
Evolutionary rates, 68–75, 337, 356–368, 369–378, 379–388
Evolutionary theories, 76–85
Extinction rates, 338–355

Factor analysis, 413–444
Farris, James S., Arnold G. Kluge, and M. F. Mickevich, Inmunological distance and the phylogenetic relationships of the *Rana boylii* species group, 479–491
Farris, James S., Arnold G. Kluge, M. F. Mickevich, Phylogenetic analysis, the monothetic group method, and myobatrachid frogs, 317–327
Farris, James S., Outgroups and parsimony, 328–334
Farris, James S., Simplicity and informativeness in systematics and phylogeny, 413–444
Fink, Sara V., Report on the second annual meeting of the Willi Hennig Society, 180–197
Fishes, 113–135
Fitch, Walter M., and Temple F. Smith, Implications of minimal length trees, 68–75
Fossils, phylogeny, and taxonomic rates of evolution, Michael J. Novacek and Mark A. Norell, 369–378
Fourier methods, 85–92
Fregata, 38, 40, 41, 43
Fregatidae, 37
Frost, John S., Functional genetic similarity between geographically separated populations of Mexican leopard frogs (*Rana pipiens* complex), 57–67
Functional genetic similarity between geographically separated populations of Mexican leopard frogs (*Rana pipiens* complex), John S. Frost, 57–67
Funk, V. A., and D. R. Brooks (eds.), Advances in cladistics: Proceedings of the first meeting of the Willi Hennig Society (rev.), 337–341

Gaffney, Eugene S., review by, 526–527
Gallirallus australis/troglodytes, 305
Gallornis, 48
Gastrotheca
  cavia, 482
  excubitor, 482
  marsupiata, 482
Gavia
  arctica, 52
  immer, 38–43, 45, 47
Gaviidae, 35–56
G-banding, 252–265
Genetic compatibility, 57–67
Genetic distance, 136–155
Genetic similarity, 57–67
Geocrinia, 319
Geometric and probabilistic aspects of statistical distance functions, William R. Atchley, Erik V. Nordheim, Fields C. Gunsett, and Peter L. Crump, 445–460
Gilia, 494
Gillespie, Neal C., Charles Darwin and the problem of creation (rev.), 105–106
Glauertia, 319, 322, 326
Glossophaga, 252, 253, 259, 260, 263
  soricina, 242, 244, 254, 255, 261
Glossophagines, 252–265
Gloyd, Leonora K., The original definition and purpose of the term "allotype," 334–336
Goodman, Morris, Mark L. Weiss, and John Czelusniak, Molecular evolution above the species level: Branching pattern, rates, and mechanisms, 389–412
Goodman, Morris, see Baba, Marietta L., –
Gorilla, 194, 401
Grebes, 35–56
Gressitt, J. L. (ed.), Biogeography and ecology of New Guinea (rev.), 222–225
Gunsett, Fields C., see Atchley, William R., –

Haack, Richard, see Kopaska-Merkel, David C., and –
Haiduk, Michael W., and Robert J. Baker, Cladistical analysis of G-banded chromosomes of nectar feeding bats (Glossophaginae: Phyllostomidae), 252–265
Hamiltonian circuits, 68–75
Harris, C. Leon, Evolution: Genesis and revelations, with readings from Empedocles to Wilson (rev.), 104–105
Hedges, S. Blair, Caribbean biogeography: Implications of recent plate tectonic studies, 518–522
Heleioporus, 319, 322
Hemoglobin phylogeny, 156–165
Hennig, Willi, 180–197
Herbert Spencer's theorem: A reply, David C. Kopaska-Merkel and Richard Haack, 95–97
Hesperornis, 35–56
  regalis, 40–43, 45
Hesperornithidae, 35, 37
Hipposideridae, 242
Histomorphology, 241–251
Hominidae, 397, 399
Homo, 160, 194, 391, 397, 399, 401–403
Hood, Craig S., and James Dale Smith, Cladistical analysis of female reproductive histomorphology in phyllostomatoid bats, 241–251
Humphries, J. M., see Bookstein, F. L., –
Hyla lanciformis, 279
Hylobates, 391
Hylonycteris, 253, 260, 262
  underwoodi, 255–257, 259
Hypothesis testing, 166–179

Ichthyornis, 54
Immunological distance and the phylogenetic relationships of the *Rana boylii* species group, James S. Farris, Arnold G. Kluge, and M. F. Mickevich, 479–491
Implications of minimal length trees, Walter M. Fitch and Temple F. Smith, 68–75
Information content, 413–444
Information theory, 1–24

Juglans
  major, 138
  microcarpa, 138
  nigra, 138
Juniperus, 147
  virginiana, 138

Kankanophryne, 318
Keast, A. (ed.), Ecological biogeography of Australia (rev.), 218–222

Kemp, T. S., Mammal-like reptiles and the origin of mammals (rev.), 526–527
Kluge, Arnold G., see Farris, James S., –
Knightia, 307
Kopaska-Merkel, David C., and Richard Haack, Herbert Spencer's theorem: A reply, 95–97
Kyarranus, 319, 322, 326

Lechriodus, 319, 322
Lee, Julian C., Accuracy and precision in anuran morphometrics: Artifacts of preservation, 266–281
Lemur, 162
Lepidobatrachus, 166–168, 170, 176
  asper, 168, 169, 173, 175
  laevis, 169, 173, 175
  llanensis, 169, 173–175
Leptodactylidae, 166–179
Leptonycteris, 253, 259, 260, 263
  curasoae, 242
  sanborni, 254, 255
Lichonycteris, 253, 260
Limnodynastes, 319, 322, 326
Limulus polyphemus, 510
Lionycteris, 253, 262, 263
  spurrelli, 255, 257, 260, 264
Lipscomb, Diana L., review by, 523–526
Lithospheric complexity, 338–355
Lonchodytes
  estesi, 49
  pterygius, 49
Lonchodytidae, 35, 49
Lonchophylla, 262, 263
  robusta, 242, 260, 261
  thomasi, 253, 255, 259, 260, 261
Loons, 35–56
Loris, 162
Løvtrup, Søren, Rejoinders at various quarters, 511–517
Lynch, John D., Relationships of the frogs of the genus *Ceratophrys* (Leptodactylidae) and their bearing on hypotheses of Pleistocene forest refugia in South America and punctuated equilibria, 166–179

Macaca, 397, 399
Macbeth, Norman, review by, 230–234
Macroevolution, 338–355, 379–388, 389–412
Macrotus, 248, 252, 260
  californicus, 242, 246
  waterhousii, 247, 255, 256, 259
Mahalanobis distance, 445–460
Margulis, L., and K. V. Schwartz, Five kingdoms: An illustrated guide to the phyla of life on Earth (rev.), 523–526
Maximum parsimony, 68–75, 156–165
Maze, Jack, and Gary E. Bradfield, Neo-Darwinian evolution—panacea or popgun, 92–95
McNeill, J., Report on the fifteenth annual Numerical Taxonomy Conference, 197–201
Metacrinia, 319, 326
Mickevich, M. F., see Farris, James S., –
Mickevich, M. F., Transformation series analysis, 461–478
Micronycteris
  hirsutus, 242, 246
  megalotis, 242, 246
Minimal trees, 68–75
Mishler, Brent D., and Michael J. Donoghue, Species concepts: A case for pluralism, 491–503
Mixophyes, 319, 322
Molecular anthropology, 156–165
Molecular evolution, 156–165
Molossidae, 242, 243
Monophyllus, 253, 255, 259, 260, 263
  redmani, 242
Mormoopidae, 241–251
Mormoops blainvillii, 242
Morphometrics, 113–135
  anuran, 266–281
Multivariate analysis, 113–135
Multivariate geometry, 445–460
Musonycteris, 253, 260, 262, 264
  harrisoni, 254–257, 259
Mustelidae, 397, 399
Myobatrachid frogs, 317–327
Myobatrachus, 319, 322
Mystacinidae, 242
Myxocyprinus, 306

Nelson, Gareth, and Norman Platnick, Systematics and biogeography: Cladistics and vicariance (revs.), 206–208, 208–217
Nelson, Gareth, reviews by, 105–106, 217–218, 341–342
Neobatrachus, 319, 322
Neo-Darwinian evolution—panacea or popgun, Jack Maze and Gary E. Bradfield, 92–95
Neogaeornis wetzeli, 49
Nesotrochis debooyi, 305
New perspectives on the biogenetic law?, B. Voorzanger and W. J. Van der Steen, 202–205
Noctilio
  albiventris, 242, 244
  leporinus, 242
Noctilionidae, 241–251
Nonequilibrium evolution and ontogeny, Richard T. O'Grady, 503–511
Nonequilibrium theory for the rate-control of speciation and extinction and the origin of macroevolutionary patterns, a, Joel Cracraft, 338–355
Nordheim, Erik V., see Atchley, William R., –
Norell, Mark A., see Novacek, Michael J., and –
Notaden, 319, 322
Novacek, Michael J., and Mark A. Norell, Fossils, phylogeny, and taxonomic rates of evolution, 369–378
Novacek, Michael J., Phylogeny and rates of evolution, 337
Novacek, Michael J., review by, 225–229
Numerical taxonomy, 445–460
Numerical Taxonomy Conference, 197–201
Nycticebus, 160–162

Oedicarena, 136, 143, 149
  latifrons, 137
O'Grady, Richard T., Nonequilibrium evolution and ontogeny, 503–511

Oncorhynchus tshawytscha, 277
Ontogeny, 503–511
Oraidium, 306, 307
Original definition and purpose of the term "allotype," the, Leonora K. Gloyd, 334–336
Oryctolagus, 160
Outgroups and parsimony, James S. Farris, 328–334

Pan, 194, 391, 397, 399, 401, 402
Papio, 397, 399
Parsimony, 68–75, 156–165, 328–334, 461–478
Patterson, Colin, Classes and cladists or individuals and evolution, 284–286
Pearson's coefficient of racial likeness, 445–460
Pelecanoides, 40, 46
Penguins, 35–56
Phaethon, 38–41, 43, 46
Phaethontidae, 37
Phenetics, 413–444
Phenomenological levels and evolutionary rates, Niles Eldredge, 379–388
Philoria, 319, 322, 326
Phylladerma stenops, 242, 246
Phyllonycteris, 253, 255, 259, 263
  aphylla, 242
Phyllostomatidae, 241–251
Phyllostomidae, 252–265
Phyllostomus, 248
  discolor, 242, 246
  hastatus, 244, 246
Phylogenetic analysis, the monothetic group method, and myobatrachid frogs, James S. Farris, Arnold G. Kluge, and M. F. Mickevich, 317–327
Phylogenetic relationships and monophyly of loons, grebes, and hesperornithiform birds, with comments on the early history of birds, Joel Cracraft, 35–56
Phylogenetics, 25–34, 304–316, 317–327, 479–491
Phylogenetics, areas, geology and the biogeography of Croizat: A radical view, Robin C. Craw, 304–316
Phylogenetic systematics, 413–444, 461–478
Phylogeny, 136–155, 241–251, 252–265, 337, 369–378
  hemoglobin, 156–165
  tarsier, 156–165
Phylogeny and rates of evolution, Michael J. Novacek, 337
Physalis, 138
Pipistrellus hesperus, 243
Platalina, 253, 262
Platnick, Norman I., Defining characters and evolutionary groups, 282–284
Platnick, Norman I., review by, 104–105
Platnick, Norman, see Nelson, Gareth, and –
Platyplectron, 319, 326
Pleistocene forest refugia, 166–179
P. occidentalis, 318, 319
Podicipedidae, 35–56
Podilymbus podiceps, 38, 40–43, 45, 47
Polyodon, 306
Pongo, 194, 391
Popper, 25–34
Prance, Ghillean T. (ed.), Biological diversification in the tropics (rev.), 527–529
Precision, 266–281
Presbytis, 160
Primate evolution, 156–165
Principal components, 113–135, 266–281
Prunus
  avium, 138
  cerasus, 138
  emarginata, 138
  pennsylvanica, 138
  serotina, 138
Psephurus, 306
Pseudophryne, 319, 325
Pteronotus
  macleayi, 242
  parnellii, 242
  quadridens, 242
Punctuated equilibria, 166–179, 356–368
Pygoscelis adeliae, 52

Quercus, 494

Ramapithecus, 403
Rana
  areolata, 57
  aurora, 479, 480, 485, 488
  berlandieri, 57–67
  blairi, 57
  boylii, 479–491
  cascadae, 479, 480
  catesbeiana, 479–481, 485–488
  chiricahuensis, 57
  forreri, 57–67
  lessonae, 480, 481, 488
  magnaocularis, 57–61, 64, 65
  miadis, 57
  muscosa, 479, 480, 485, 488
  omiltemana, 57
  palustris, 57
  pipiens, 57–67, 479–481, 485, 487, 488
  pretiosa, 479, 480, 483
  sphenocephala, 57
  sylvatica, 479, 481, 483, 484–488
  tarahumarae, 479, 480
  taylori, 57
  temporaria, 479–482, 484, 485, 487, 488
  utricularia, 57
Ranidella, 319, 322, 324, 326
  riparia, 325
Raven, Robert J., review by, 218–222
Rejoinders at various quarters, Søren Løvtrup, 511–517
Relationships of the frogs of the genus *Ceratophrys* (Leptodactylidae) and their bearing on hypotheses of Pleistocene forest refugia in South America and punctuated equilibria, John D. Lynch, 166–179
Report on the fifteenth annual Numerical Taxonomy Conference, J. McNeill, 197–201
Report on the second annual meeting of the Willi Hennig Society, Sara V. Fink, 180–197
Reproductive histomorphology, 241–251

Rhagoletis, 136–155
basiola, 138
berberides, 138, 143–145
berberis, 138, 144, 145
boycei, 138, 144, 145
cerasi, 138, 143–145, 148
cingulata, 137, 138, 142–145, 148
completa, 138, 142, 144, 145, 149
cornivora, 138, 144, 145
fausta, 138, 141–145
indifferens, 138, 144, 145
juglandis, 138, 142, 144, 145
juniperina, 138, 144, 145, 147
mendax, 137, 138, 142, 144, 145
pomonella, 137, 138, 142–145, 148
ribicola, 138, 143–145, 148
striatella, 138, 141–145, 148
suavis, 138, 143–145, 149
tabellaria, 138, 143–145, 148
zephyria, 138, 144, 145
Rhagoletoides, 143
Rheobatrachus, 318, 319, 322–326
Rhinolophidae, 242
Rhinophylla pumilio, 242
Ribes aureum, 138
Rohlf, F. J., see Sokal, R. R., and –
Rohlf, F. J., and R. R. Sokal, Statistical tables (rev.), 229–230
Rosa, 138
Rosen, D. E., Do current theories of evolution satisfy the basic requirements of explanation?, 76–85
Ruse, Michael, Darwinism defended: A guide to the evolution controversies (rev.), 230–234

Sadler, P. M., see Dingus, Lowell, and –
Schuh, Randall T., review by, 222–225
Schwartz, K. V., see Margulis, L., and –
Scleronycteris, 253
Simple structure, 413–444
Simplicity and informativeness in systematics and phylogeny, James S. Farris, 413–444
Smith, G. R., see Bookstein, F. L., –
Smith, James Dale, see Hood, Craig S., and –
Smith, Temple F., see Fitch, Walter M., and –
Sneath, P. H. A., review by, 208–217
Sokal, R. R., and F. J. Rohlf, Biometry (rev.), 229–230
Sokal, R. R., see Rohlf, F. J., and –
Solanum
carolinense, 138
rostratum, 137, 138
South America, 166–179
Speciation, 1–24, 379–388, 389–412
rates, 338–355
Species concepts: A case for pluralism, Brent D. Mishler and Michael J. Donoghue, 491–503
Spencer, Herbert, 95–97
Spheniscidae, 37
Spheniscus magellanicus, 38, 39
Squalus acanthias, 277
Stefania, 482
Stone, Irving, The origin: A biographical novel of Charles Darwin (rev.), 105–106
Straney, Donald O., review by, 337–341
Stratigraphic completeness on estimates of evolutionary rates, the effects of, Lowell Dingus and Peter M. Sadler, 356–368
Strauss, R. E., see Bookstein, F. L., –
Strauss, Richard E., and Fred L. Bookstein, The truss: Body form reconstructions in morphometrics, 113–135
Sturnira, 249
lilium, 242
Suncus, 394
murinus, 163
Symphoricarpos, 138
Systematic relationship, 166–179

Tachypleus gigas, 510
Tadarida plicata, 243
Talpa europaea, 163, 394
Tarsier phylogeny, 156–165
Tarsius, 156–165
Taudactylus, 319, 322
Tephritidae, 136–155
Theoretical issues and "pattern cladistics," Ronald H. Brady, 286–291
Thermodynamics,
second law of, 1–24
Thomomys bottae, 142
Thyroptera tricolor, 244, 247
Thyropteridae, 241–251
Trachops cirrhosus, 242–246
Transformation series analysis, M. F. Mickevich, 461–478
Transition series, 461–478
Triangulation, 113–135
Truss: Body form reconstructions in morphometrics, the, Richard E. Strauss and Fred L. Bookstein, 113–135
Tupaia, 160, 397, 399
Tupinambis teguixin, 391

Uperoleia, 319, 322, 326
Uroderma bilobatum, 242
Ursus
arctos, 25
maritimus, 25, 284

Vaccinium, 137
arboreum, 138
Vampyressa pusilla, 242
Vampyrodes carraccioli, 242
Vampyrops helleri, 242
Van der Steen, W. J., see Voorzanger, B., and –
Varanus varanus, 391
Vespertilionidae, 242, 243
Viburnum, 181, 182
Vicariance/vicariism, panbiogeography, "vicariance biogeography," etc.: A clarification, Leon Croizat (-Chaley), 291–304
Victims of history—a nonequilibrium approach to evolution, E. O. Wiley and Daniel R. Brooks, 1–24

Vipera aspis, 403
Voorzanger, B., and W. J. Van der Steen, New perspectives on the biogenetic law?, 202–205

Wagner trees, 461–478
Watrous, Larry E., review by, 98–100
Wawelia gerholdi, 173
Weiss, Mark L., see Baba, Marietta L., –
Weiss, Mark L., see Goodman, Morris, –
Wheeler, Quentin, review by, 342–345
Wiley, E. O., and Daniel R. Brooks, Victims of history—a nonequilibrium approach to evolution, 1–24
Wiley, E. O., Phylogenetics: The theory and practice of phylogenetic systematics (rev.), 98–100, 100–104

Xenopus, 393
laevis, 407

Zonosemata, 136, 143, 149
electa, 138, 144, 145, 148
Zweifel, Richard G., review by, 110